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1   DeepView: a channel for distributed microscopy and informatics   ▬
B. Parvin, J. Taylor, G. Cong, M. A. OKeefe, M. H. Barcellos-Hoff
January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '99**
Publisher: ACM Press
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2   Efficient dispersal of information for security, load balancing, and fault tolerance   ▬
Michael O. Rabin
April 1989 **Journal of the ACM (JACM)**, Volume 36 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(1.17 MB)   Additional Information: full citation, abstract, references, citings, index terms

An Information Dispersal Algorithm (IDA) is developed that breaks a file F of length L = ↿ F↾ into n pieces Fi, l ≤ i ≤ n, each of length ↿Fi↾ = L/m, so that every m pieces suffice for reconstructing F. Dispersal and re ...

3   How to securely replicate services   ▬
Michael K. Reiter, Kenneth P. Birman
May 1994 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 16 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(1.78 MB)   Additional Information: full citation, abstract, references, citings, index terms

We present a method for constructing replicated services that retain their availability and integrity despite several servers and clients being corrupted by an intruder, in addition to others failing benignly. We also address the issue of maintaining a causal order among client requests. We illustrate a security breach resulting from an intruder's ability to effect a violation of causality in the sequence of requests processed by the service and propose an approach to counter this attack. A ...

Keywords: causality, replication, state machines, threshold cryptography

4 Customization and composition of distributed objects: middleware abstractions for policy management

Mark Astley, Gul A. Agha

November 1998 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 6th ACM SIGSOFT international symposium on Foundations of software engineering SIGSOFT '98/FSE-6**, Volume 23 Issue 6

Publisher: ACM Press

Full text available: pdf(931.52 KB)   Additional Information: full citation, abstract, references, citings, index terms

Current middleware solutions such as CORBA and Java's RMI emphasize compositional design by separating functional aspects of a system (*e.g.* objects) from the mechanisms used for interaction (*e.g.* remote procedure call through stubs and skeletons). While this is an effective solution for handling distributed interactions, higher-level requirements such as heterogeneity, availability, and adaptability require policies for resource management as well as interaction. We describe the

5 Cluster-based scalable network services

Armando Fox, Steven D. Gribble, Yatin Chawathe, Eric A. Brewer, Paul Gauthier

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5

Publisher: ACM Press

Full text available: pdf(2.42 MB)   Additional Information: full citation, references, citings, index terms

6 Separating data and control transfer in distributed operating systems

Chandramohan A. Thekkath, Henry M. Levy, Edward D. Lazowska

November 1994 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Proceedings of the sixth international conference on Architectural support for programming languages and operating systems ASPLOS-VI**, Volume 29 , 28 Issue 11 , 5

Publisher: ACM Press

Full text available: pdf(1.42 MB)   Additional Information: full citation, abstract, references, citings, index terms

Advances in processor architecture and technology have resulted in workstations in the 100+ MIPS range. As well, newer local-area networks such as ATM promise a ten- to hundred-fold increase in throughput, much reduced latency, greater scalability, and greatly increased reliability, when compared to current LANs such as Ethernet.We believe that these new network and processor technologies will permit tighter coupling of distributed systems at the hardware level, and that distribu ...

7 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Publisher: ACM Press

Full text available: pdf(5.49 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

8 How to prove where you are: tracking the location of customer equipment

Eran Gabber, Avishai Wool

November 1998 **Proceedings of the 5th ACM conference on Computer and communications security CCS '98**

Publisher: ACM Press

Full text available: pdf(1.01 MB)   Additional Information: full citation, references, citings, index terms

9 An overview of the Amoeba distributed operating system

Andrew S. Tanenbaum, Sape J. Mullender

July 1981 **ACM SIGOPS Operating Systems Review**, Volume 15 Issue 3

Publisher: ACM Press

Full text available: pdf(822.33 KB)   Additional Information: full citation, abstract, references, citings

As hardware prices continue to drop rapidly, building large computer systems by interconnecting substantial numbers of microcomputers becomes increasingly attractive. Many techniques for interconnecting the hardware, such as Ethernet [Metcalfe and Boggs, 1976], ring nets [Farber and Larson, 1972], packet switching, and shared memory are well understood, but the corresponding software techniques are poorly understood. The design of general purpose distributed operating systems is one of the key r ...

10 Sirpent: a high-performance internetworking approach

D. R. Cheriton

August 1989 **ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures & protocols SIGCOMM '89**, Volume 19 Issue 4

Publisher: ACM Press

Full text available: pdf(1.65 MB)   Additional Information: full citation, abstract, references, citings, index terms

A clear target for computer communication technology is to support a high-performance global internetwork. Current internetworking approaches use either concatenated virtual circuits, as in X.75, or a "universal" internetwork datagram, as in the DoD Internet IP protocol and the ISO connectionless network protocol (CLNP). Both approaches have significant disadvantages. This paper describes Sirpent™ (Source Internetwork Routing Protocol with Extended Network Trans ...

11 Extending document management systems with user-specific active properties

Paul Dourish, W. Keith Edwards, Anthony LaMarca, John Lamping, Karin Petersen, Michael Salisbury, Douglas B. Terry, James Thornton

April 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 2

Publisher: ACM Press

Full text available: pdf(166.43 KB)   Additional Information: full citation, abstract, references, citings, index terms

Document properties are a compelling infrastructure on which to develop document management applications. A property-based approach avoids many of the problems of traditional heierarchical storage mechanisms, reflects document organizations meaningful to user tasks, provides a means to integrate the perspectives of multiple individuals and groups, and does this all within a uniform interaction framework. Document properties can reflect not only categorizations of documents and document use ...

Keywords: active properties, component software, document management systems, document services, user experience

12 Securing information transmission by redundancy

Jun Li, Peter Reiher, Gerald Popek

September 1999 **Proceedings of the 1999 workshop on New security paradigms NSPW '99**

Publisher: ACM Press

Full text available: pdf(582.78 KB)   Additional Information: full citation, references, index terms

13 Horus: a flexible group communication system

Robbert van Renesse, Kenneth P. Birman, Silvano Maffeis

April 1996 **Communications of the ACM**, Volume 39 Issue 4

Publisher: ACM Press

Full text available: pdf(312.96 KB)   Additional Information: full citation, references, citings, index terms

14 The Parallel Protocol Engine

Matthias Kaiserswerth

December 1993 **IEEE/ACM Transactions on Networking (TON)**, Volume 1 Issue 6

Publisher: IEEE Press

Full text available: pdf(1.65 MB)   Additional Information: full citation, references, citings, index terms, review

15 File server scaling with network-attached secure disks

Garth A. Gibson, David F. Nagle, Khalil Amiri, Fay W. Chang, Eugene M. Feinberg, Howard Gobioff, Chen Lee, Berend Ozceri, Erik Riedel, David Rochberg, Jim Zelenka

June 1997 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '97**, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(1.77 MB)   Additional Information: full citation, abstract, references, citings, index terms

By providing direct data transfer between storage and client, network-attached storage devices have the potential to improve scalability for existing distributed file systems (by removing the server as a bottleneck) and bandwidth for new parallel and distributed file systems (through network striping and more efficient data paths). Together, these advantages influence a large enough fraction of the storage market to make commodity network-attached storage feasible. Realizing the technology's ful ...

16 On randomization in sequential and distributed algorithms

Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar

March 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(8.01 MB)   Additional Information: full citation, abstract, references, citings, index terms

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional deterministic algorithms. This survey presents five techniques that have been widely used in the design of randomized algorithms. These techniques are illustrated using 12 randomized algorithms—both sequential and distributed— that span a wide range of applications, including:primality testing (a classical problem in number theory), interactive probabilistic proof s ...

Keywords: Byzantine agreement, CSP, analysis of algorithms, computational complexity, dining philosophers problem, distributed algorithms, graph isomorphism, hashing, interactive probabilistic proof systems, leader election, message routing, nearest-neighbors problem, perfect hashing, primality testing, probabilistic techniques, randomized or probabilistic algorithms, randomized quicksort, sequential algorithms, transitive tournaments, universal hashing

17 Experiences with the Amoeba distributed operating system

Andrew S. Tanenbaum, Robbert van Renesse, Hans van Staveren, Gregory J. Sharp, Sape J. Mullender

December 1990 **Communications of the ACM**, Volume 33 Issue 12

Publisher: ACM Press

Full text available: .pdf(2.71 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

The Amoeba project is a research effort aimed at understanding how to connect multiple computers in a seamless way [16, 17, 26, 27, 31]. The basic idea is to provide the users with the illusion of a single powerful timesharing system, when, in fact, the system is implemented on a collection of machines, potentially distributed among several countries. This research has led to the design and implementation of the Amoeba distributed operating system, which is being used as a prototype and veh ...

18 Visualizing abstract events

Thomas Kunz

October 1994 **Proceedings of the 1994 conference of the Centre for Advanced Studies on Collaborative research CASCON '94**

Publisher: IBM Press

Full text available: pdf(166.21 KB)   Additional Information: full citation, abstract, references, citings, index terms

Because of the complexity of distributed applications, understanding their behaviour is a challenging task. The top-down use of suitable abstraction hierarchies is frequently proposed to manage this complexity. One commonly used abstraction is to group primitive events into abstract events. This paper presents a graphical representation for *convex* abstract events. This representation can easily be included in the process-time diagrams frequently used to depict the behaviour of distributed ...

19 Toward a history of (personal) workstations

Gordon Bell

January 1986 **Proceedings of the ACM Conference on The history of personal workstations**

Publisher: ACM Press

Full text available: pdf(1.48 MB)   Additional Information: full citation, abstract, references, citings, index terms

I originally accepted this keynote honor for five reasons: to respond to Alan Perlis' request (he told me I could present anything from a new taxonomy to personal reminiscences); second, to identify the important artifacts that should be preserved in The Computer Museum; third, to posit a framework of the history of workstations that can be written in the next century (we're all too close to create it); fourth, to summarize my own involvement on interactive computing including timesharing a ...

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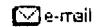
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